Amendment dated February 24, 2004

This amended Abstract will replace the Abstract that was filed with the original specification.

ABSTRACT

Method and apparatus for phase shifting neurological signals received from monitoring

elements of a medical device. The medical device comprises a plurality of monitoring elements

each receiving a neurological signal. The device processes the neurological signals and identify

identifies a time shift of the neurological signals relative to each other. The neurological signals

are then time shifted according to the time shift upon which the signals are utilized to provide

closed-loop feedback control of a treatment therapy.